

Claims

What is claimed is:

1. An antenna comprised of a crossed pair of center-fed end-loaded bent-dipole radiators which are structurally embedded into a properly loaded cavity, whereby broadband, dual independent polarized, and hemisphere field-of-view coverage with low RCS characteristics are provided.
2. A low-profile electrically small cavity antenna measuring $0.17 \times 0.17 \times 0.05$ wavelengths.
3. A structurally-embedded conformal antenna with a selectively loaded cavity, whereby less than 10% of the cavity volume is comprised of absorbing material while still maintaining pattern symmetry.